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PATENT & TRADEMARK OFFICE

<4800>

Replacement Sheet P1/9

FIG. 1

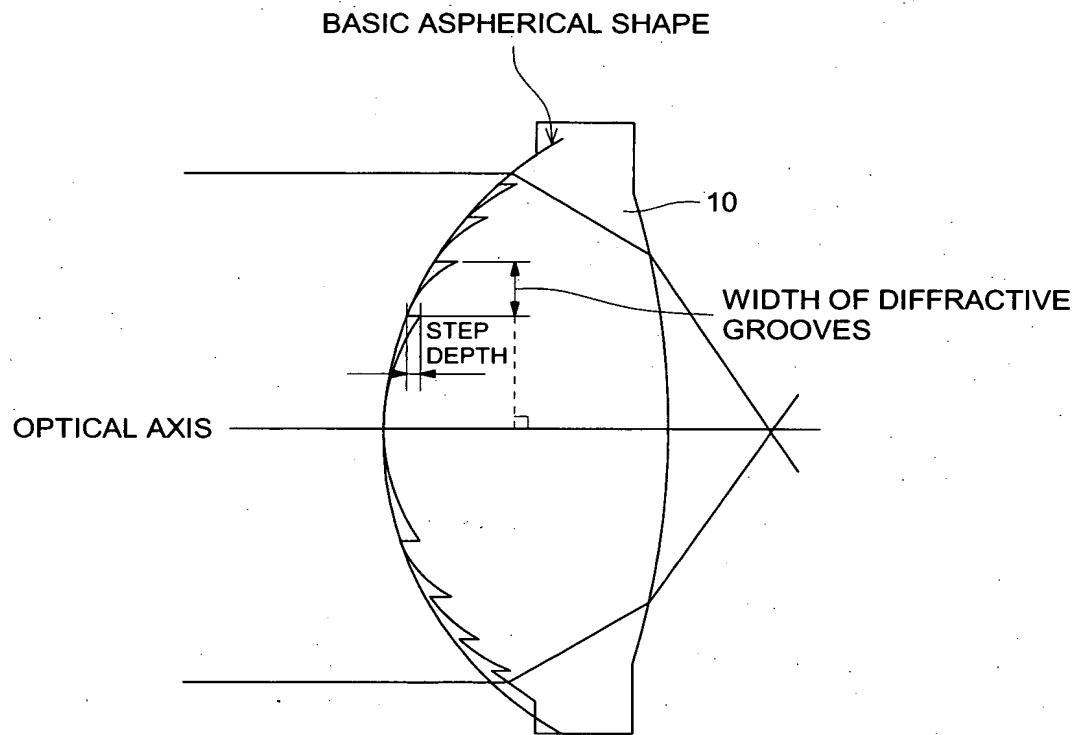




FIG. 2

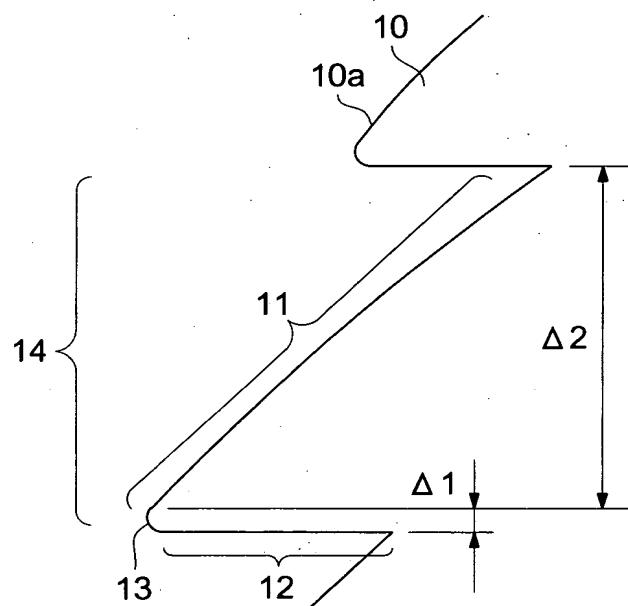
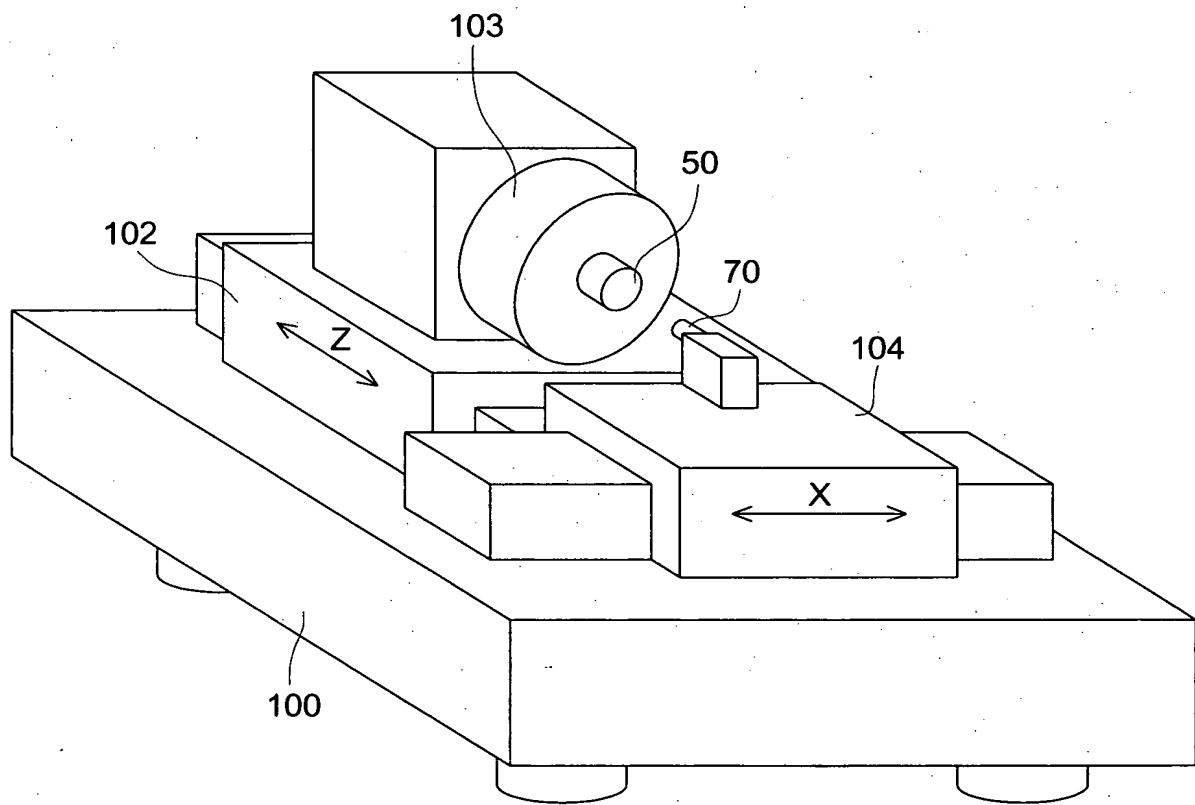




FIG. 3





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P4/9

Replacement Sheet

FIG. 4 (a)

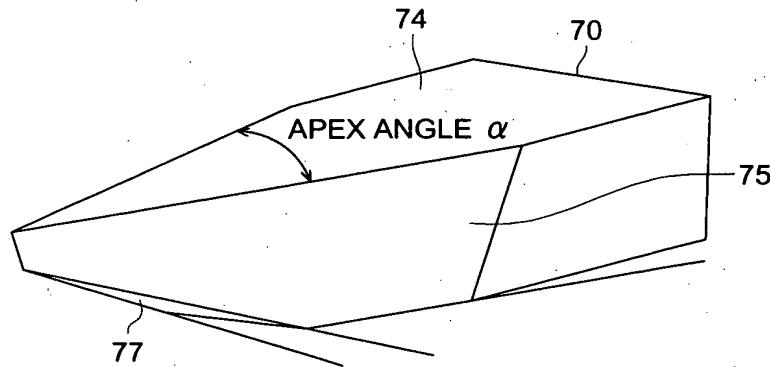


FIG. 4 (b)

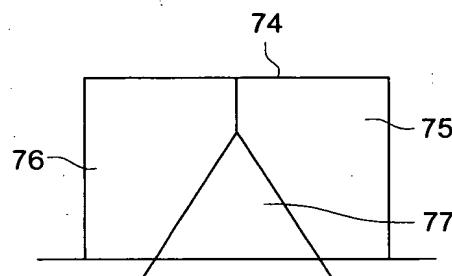


FIG. 4 (c)

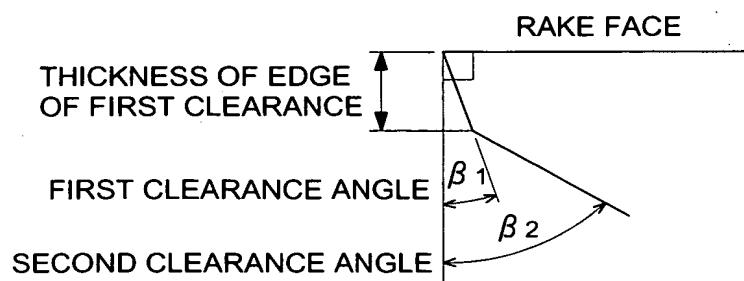
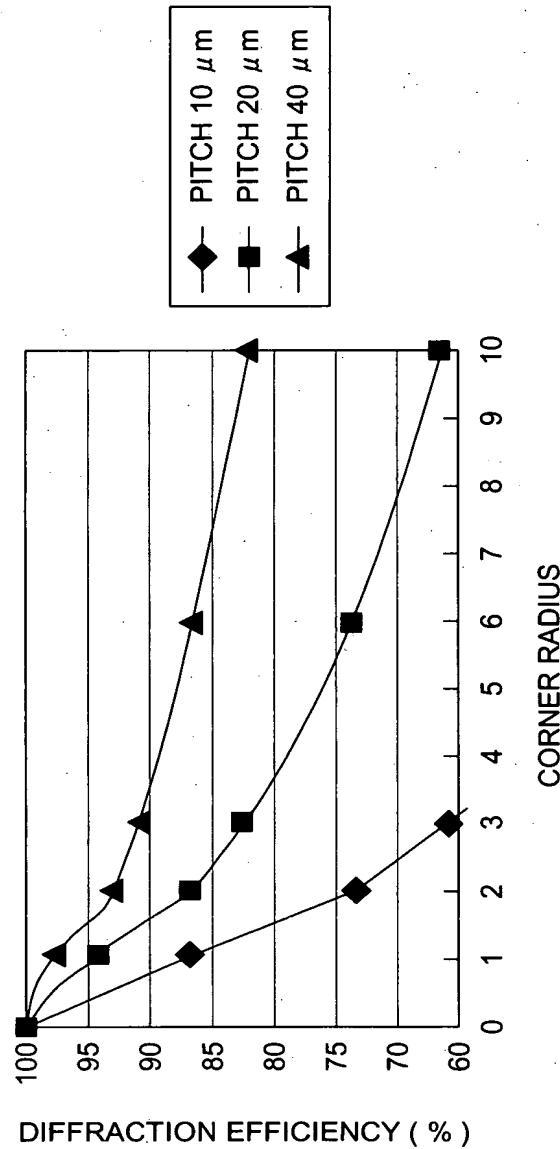


FIG. 5

CORNER RADIUS vs DIFFRACTION EFFICIENCY



REMARKS) SCALAR CALCULATION OF DIFFRACTION EFFICIENCY BY SAWTOOTH SHAPE

REFRACTIVE INDEX: $n = 1.5$

USED WAVELENGTH: 650 nm

BLAZED WAVELENGTH: 650 nm

STEP DEPTH: 1.3 μm





FIG. 6

USED WAVELENGTH vs DIFFRACTION EFFICIENCY

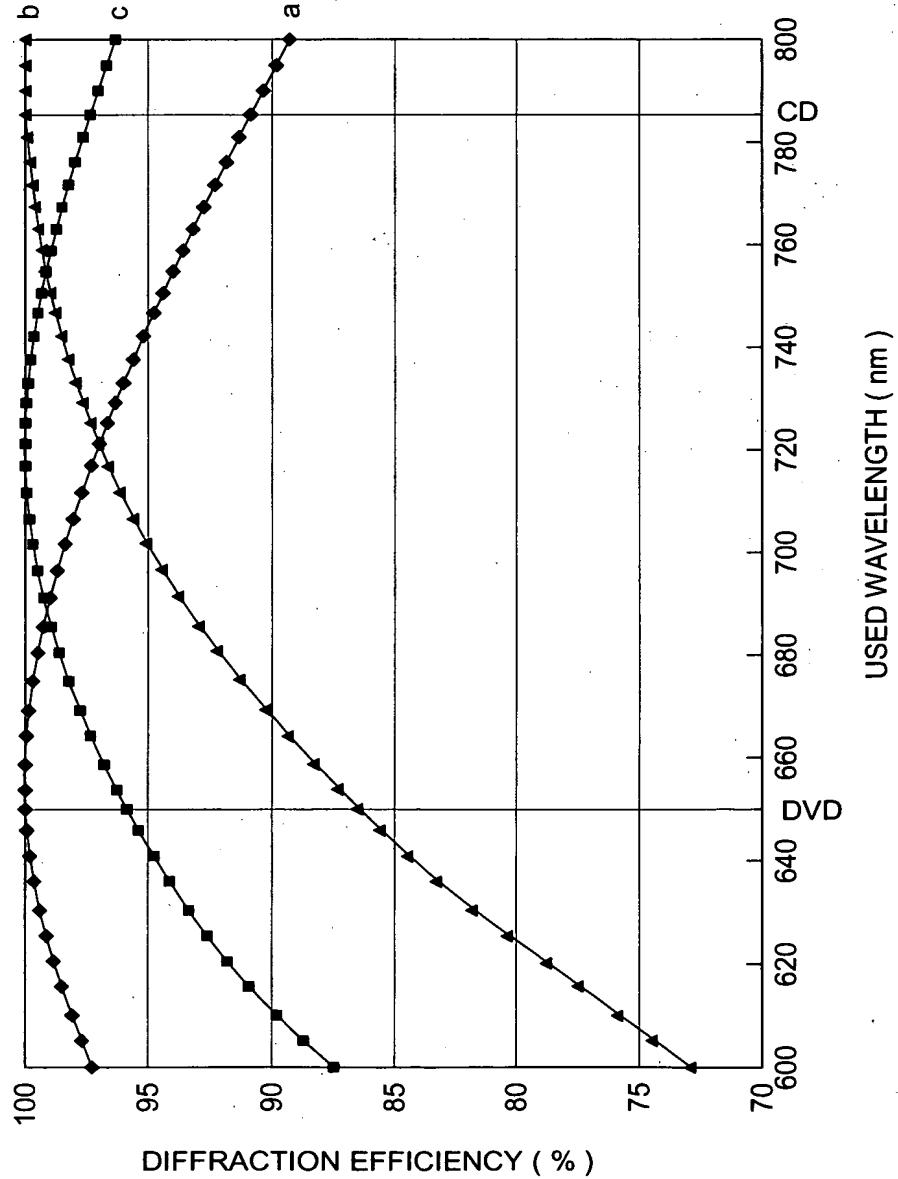




FIG. 7 (a)

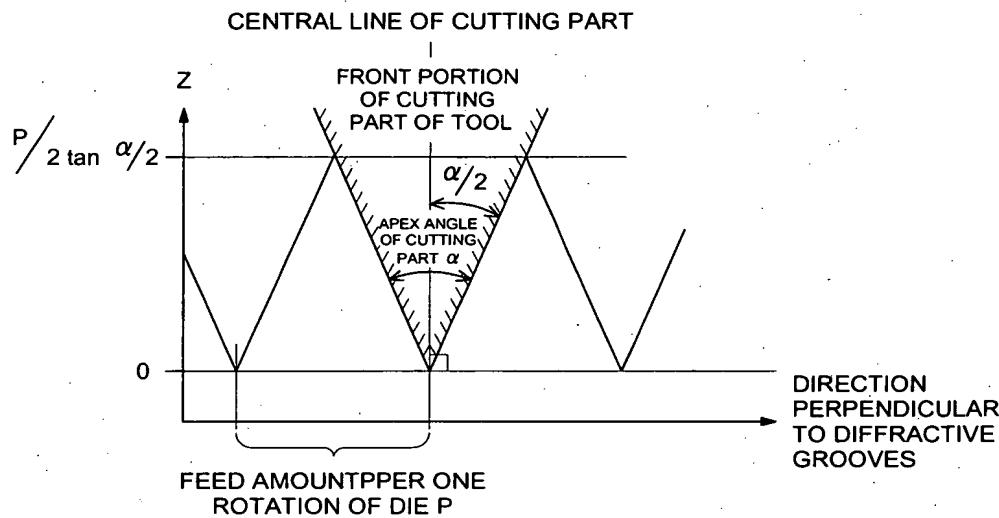


FIG. 7 (b)

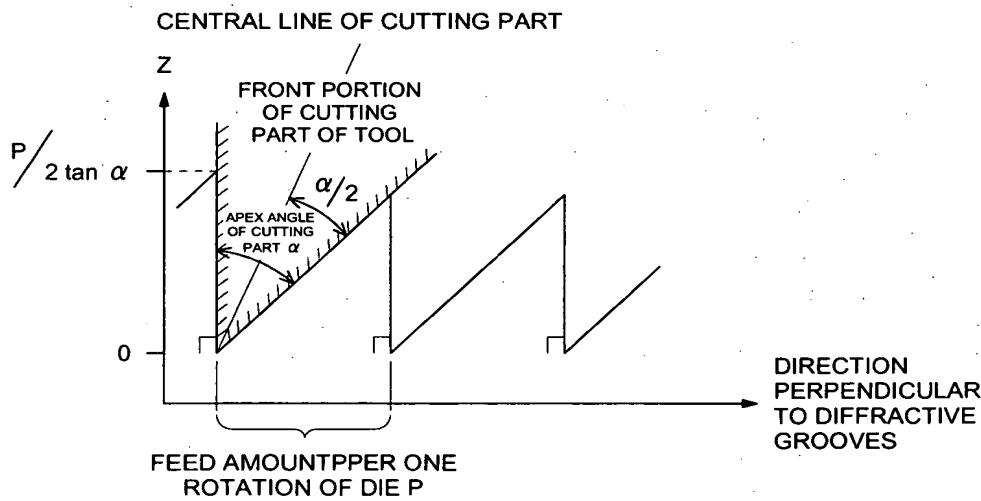


FIG. 7 (c)

(Rz)

APEX ANGLE OF CUTTING PART	FIG. 7a	FIG. 7b
10°	5.71P	5.67P
30°	1.87P	1.73P
40°	1.37P	1.19P



FIG. 8

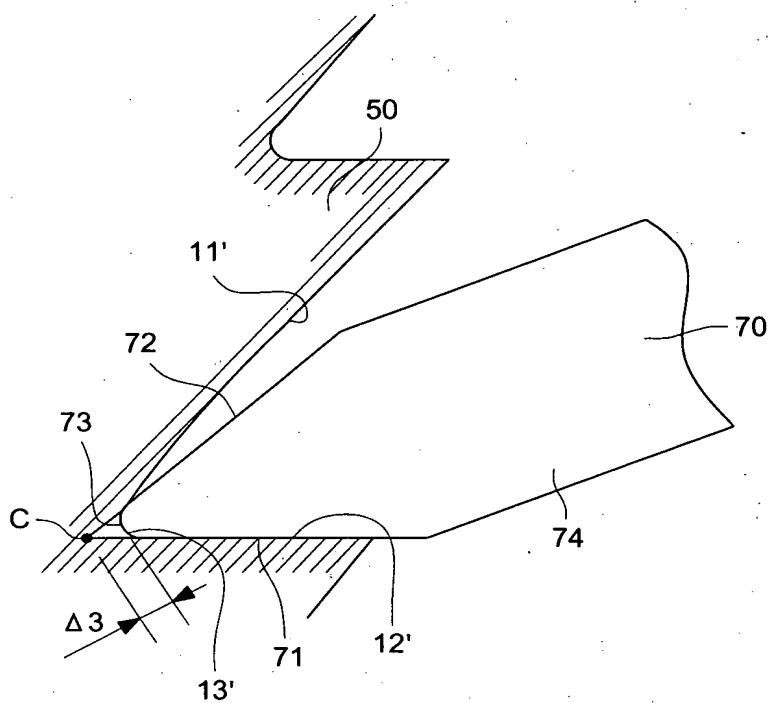




FIG. 9

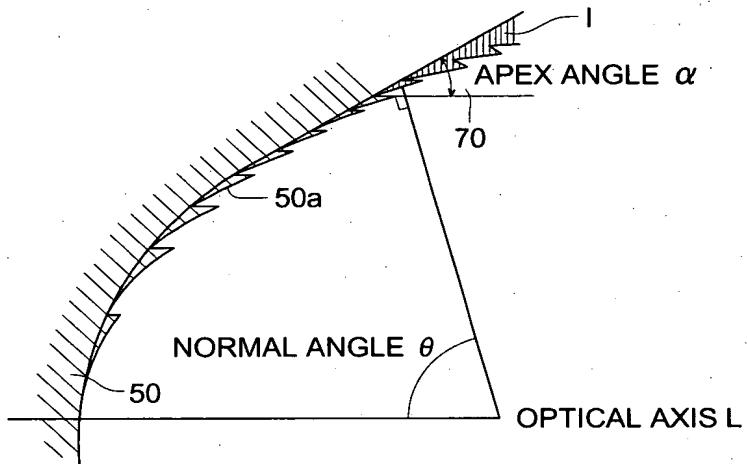


FIG. 10

